

GREKOV, P.

New possibilities for housing construction in Sofia. p. 28.  
(Tekhnika, Vol. 6, no. 1, 1957, Bulgaria)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 6, June 1957, Uncl.

GREKOV, P., arkhitektor

Housing construction in Bulgarian villages. Zhil.stroi.  
no.9:30-32 '59. (MIRA 13:1)  
(Bulgaria--Architecture, Domestic)

GREKOV, Pantelei, arkh.; ANASTASOV, Khristo, arkh.

Analysis of the dwellings in the new housing blocks of Sofia.  
Arkitektura 8 no.8:15-22 '61.

SEDEL'NIKOV, G.S.; YEFIMENKO, L.S.; SOLOV'YEV, V.K.; AZAROVA, Ye.I.;  
BUYNEVICH, D.V.; ~~GREKOV, P.A.~~

Crystallization of potassium salts from evaporating Kara-Bogaz brine  
in lake No.5. Izv. AN Turk. SSR no.3:30-40 '58. (MIRA 11:9)

1. Institut obshchey i neorganicheskoy khimii im. N.S. Kurnakova AN SSSR  
i Institut khimii AN Turkmenskoy SSR.  
(Kara-Bogaz-Gol (Gulf)--Potassium salts)

GREKOV, P.M.

SHESTAKOV, V.V., podpolkovnik meditsinskoy sluzhby; GREKOV, P.M., mayor  
meditsinskoy sluzhby; DAVYDOVICH, S.Ya., kandidat meditsinskoy sluzhby;  
TISHCHENKO, A.I., starshiy leytenant meditsinskoy sluzhby

Prevention and treatment of acute catarrh of the upper respiratory  
tract. Voen.-med.zhur. no.8:79-81 Ag '57. (MIRA 10:12)  
(RESPIRATORY ORGANS--DISEASES)

AUTHORS: Grekov, P. N., Eng. and Gruzinov, V. K. Docent. (Urals<sup>357</sup>  
Polytechnical Institute).

TITLE: On the automation of horizontal distribution of burden  
in blast furnaces. (K avtomatizatsii gorizontal'nogo  
raspredeleniya shikhty v domennykh pechakh).

PERIODICAL: "Stal'" (Steel), 1957, No.4, pp.300-304 (U.S.S.R.)

ABSTRACT: The possibility of automising the operation of the  
burden distributor proposed by A. S. Ayukov is outlined.  
The above distributor (Fig.1) differs from the usual  
one in that it does not rotate, instead a rotating  
hopper with an exentric outlet is set over it (Fig.1).  
The proposed automation is based on impulses from a  
number of thermocouples placed on the periphery of the  
furnace throat. The electric circuit is described  
(Fig.2). The arrangement is such that ore charges are  
dropped on the zone of the hottest thermocouple and  
coke charge onto the coolest zone. Automation of the  
usual distributor is also possible, but the scheme in  
this case is more complicated as an automatic correction  
of displacement angle is required. The scheme proposed  
is explained. Thermocouples placed in the gas oftakes  
can also be used for the correction of the burden  
distribution. The method used in the Azovstal' Works  
(not automatic) is described. There are 5 diagrams, 1  
tables and 2 Russian references.

GREKOV, P.N.

Material and heat balances in the sintering process. Trudy Ural.  
politekh. inst. no.105:5-17 '60. (MIRA 14:3)  
(Sintering)

GREKOV, P.N.; GRUZINOV, V.K.; KORNEV, V.K.

Effect of small fractions on the resistance of charge materials to  
the flow of gases. Trudy Ural. politekh. inst. no.105:30-36 '60.  
(MIRA 14:3)

(Blast furnaces ~~hydro~~ aerodynamics)



KOROTICH, V.I.; PUZANOV, V.P.; GREKOV, P.N.

Using the suction method to evaluate the permeability to gas of  
a layer of granular materials during sintering. Izv.vys.ucheb.  
zav.; Chernomet. 8 no.6:22-26 '65.

(MIRA 18:8)

1. Ural'skiy politekhnicheskii institut.

GREKOV, P.N.; GRUZINOV, V.K.; MAKHANEK, N.G.

Changes of friction forces in a layer of granular materials  
depending on the rate of gas flow through it. Izv. vys. ucheb.  
zav.; chern. met. 6 no.6:32-34 '63. (MIRA 16:8)

1. Ural'skiy politekhnicheskiy institut.  
(Granular materials) (Gas flow)

GREKOV, P.N.; GRUZINOV, V.K.

Conditions for the sorting of ores. Izv. vys. ucheb. zav.;  
chern. met. 6 no.9:33-38 '63. (MIRA 16:11)

1. Ural'skiy politékhicheskiy institut.

GREKOV, P.N.; GRUZINOV, V.K.

Permeability of spherical and irregularly shaped lump materials.  
Izv. vys. učeb. zav.; Chern. met. 6 no.10:18-21 '63.  
(MIRA 16:12)

1. Ural'skiy politekhnicheskiy institut.

GREKOV, P.N.

Determining dimensions of the layer of granular materials  
and the value characterizing the rate of gas flow in the  
layer. Izv. vys. ucheb. zav.; chern. met. 6 no. 12:21-27  
'63. (MIRA 17:1)

1. Ural'skiy politekhnicheskiy institut.

GREKOV, P.N.; GRUZINOV, V.K.

Regularities of pressure of the charge mixture in blast  
furnaces. Stal' 23 [i.e. 24] no.4:301-302 Ap '64. (MIRA 17:8)

1. Ural'skiy politekhnicheskiy institut i Khimiko-metallurgi-  
cheskiy institut AN KazSSR.

GREKOV, P.N.

Determination of the apparent specific gravity of fine lump  
materials. Zav.lab. 30 no.4467 '64. (MIRA 17:4)

1. Ural'skiy politekhnicheskii institut.

GREKOV, P.N.

Effect of the relation between the size of lumps and the diameter  
of the layer on the gas dynamic characteristics of the layer.

Izv. vys. uchob. zav.; chern. met. 8 no.9:39-44 '65.

(MIRA 18:9)

1. Ural'skiy politekhnicheskii institut.



STRATU, S.I.; KVELEROV, A.M.; GREKOV, S., red.

[Towards a communist abundance] Pentru un belshug komunist; din  
eksperientsa de munke a kolkhozului "Michurin", s. Trushen',  
Anenii-Noi. Kishineu, Editura de partid a komitetului chentral  
Al PK AL Moldovei, 1964. 86 p. [In Moldavian] (MIRA 18:11)

S/0137/63/000/011/G017/G017

ACCESSION NR: ARA015541

SOURCE: RZh. Metallurgiya, Abs. 110165

AUTHOR: Kabanova, L. M.; Dobosh, V. G.; Grekov, S. D.

TITLE: Precipitation of indium from sulfuric acid solutions with sodium pyrophosphate

CITED SOURCE: Sb. Teoriya i praktika metallurgii. Chelyabinsk, vyp. 5, 1963, 190-193

TOPIC TAGS: indium, indium precipitation, indium extraction, sodium pyrophosphate

TRANSLATION: The authors studied the precipitation of In from a sulfuric acid solution with sodium pyrophosphate as a function of acidity. They found that in the process of neutralization, depending on the pH of the solution, it is possible to have the formation of both acidic and normal In pyrophosphates:  $\text{In}(\text{H}_3\text{P}_2\text{O}_7)_3$ ,  $\text{In}_2(\text{H}_2\text{P}_2\text{O}_7)_3$ ,  $\text{In}(\text{HP}_2\text{O}_7)$ , and  $\text{In}_4(\text{P}_2\text{O}_7)_3$ . Their In content varies as a function of the acidity of the solution. Thus, with a pH of 0.2-0.7, the

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ACCESSION NR: AR4015541

In content in the precipitate is 25.3-3-25%. With increasing pH of the solution, the In content increases and reaches 40.5% with a pH of 2.45 G. Svodtseva.

DATE ACQ: 09Dec63

SUB CODE: ML.

ENCL: 00

Card 2/2

GREKOV, S.D.; VOLKOVICH, A.V.

Cocrystallization of manganese (II) and iron (II) with cadmium sulfate in a strong acid medium. Zhur. neorg. khim. 9 no.2: 456-459 F'64.  
(MIRA 17:2)

1. Nauchno-issledovatel'skiy institut metallurgii Yuzhno-Ural'skogo soveta narodnogo khozyaystva.

GUZAIROV, R.S.; LEYTSIN, V.A.; GREKOV, S.D.

Solubility and the product of solubility of indium pyrophosphates.  
Zhur.neorg.khim. 9 no.1:20-24 Ja '64. (MIRA 17:2)

1. Chelyabinskiy elektrolitnyy tsinkovyy zavod.

VOLKOVICH, A.V., inzh.; KOCHERGIN, A.I., inzh.; GREKOV, S.D., inzh.;  
ZINOV'YEV, A.F., inzh.; TETENEVA, M.S., inzh.

Mechanizing the production of cadmium sulfate. Khim. i nef't.  
mashinostr. no.1:39 J1 '64. (MIRA 17:12)

GREKOV, S.V.

AUTHOR: Grekov, S.V., Engineer

135-9-17/24

TITLE: Mechanical Vibrator for Automatic Vibrational Arc Welding  
(Mekhanicheskiy vibrator dlya avtomaticheskoy vibrodugovoy  
naplavki)

PERIODICAL: "Svarochnoye Proizvodstvo", 1957, # 9, p 34-35 (USSR)

ABSTRACT: The article describes the vibrator introduced into the production of the mechanical repair shop of the Ural Automobile Plant (Ural'skiy avtomobil'nyy zavod). Design and operation of this device are described in detail; the device is shown by cross-sectional drawings. The existing electro-magnetic vibrators employed up to now for vibro-arc-welding do not permit fixing of an exact amplitude of electrode end vibration and vibration speed. Blows of electric magnet core are unavoidably transferred to the electrode causing splatter. The stability of arc is impaired by shocks on the electrode end. The vibrators operate with unpleasant noise. The subject device eliminates the aforementioned disadvantages. It enables exact fixing of amplitude and number of vibrations, operates noiselessly with a steadily burning arc. No sudden swinging of amperemeter and voltmeter hands is observed. The designers of the device are the repair shop mechanic N.P.

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135-9-17/24

**Mechanical Vibrator for Automatic Vibrational Arc Welding**

Bezlepkin and the electrical engineer A.S.Domorod. The vibro-arc-welding method, as suggested by Engineer G.P.Klekovkin (see "Svarochnoye Proizvodstvo", 1956, # 5) has been considerably improved in the Chelyabinsk institutes and plants, and as a result it can be used for rebuilding worn parts of automobiles, agricultural machines and other equipment.

**AVAILABLE:** Library of Congress

Card 2/2



S/133/60/000/011/003/023  
A054/A029

AUTHORS: Grekov, P.N., Gruzinov, V.K., Lazarev, B.L.

TITLE: Rational Arrangement of Transmitters for Automatic Control of the Horizontal Distribution of the Charge

PERIODICAL: Stal', 1960, No. 11, pp 977-980

TEXT: The accuracy and the quick reaction of the automatic control system of the revolving distribution of the charge primarily depends on the sensitivity, the accuracy and the long useful life of nickel-cobalt and "alume" (an alloy containing Ni, Al, Mn, Si and Co) thermocouples which are usually arranged on the upper level of the furnace brickwork under the armor plates. For several reasons, however, this arrangement does not insure sufficient sensitivity of the thermocouples, which are placed in thick-walled protective tubes, arranged 2-2.5 m below the level of the charge; the changes in the distribution of the materials in the charge are, therefore, indicated only with a considerable delay. The thermocouples, consequently, record only very considerable fluctuations in the distribution of materials and of the gas flow on the periphery of the furnace. Moreover, the useful life of these thermocouples does not exceed 5-6 months, mainly on account of the sooty carbon

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S/133/60/000/011/003/023  
A054/A029

Rational Arrangement of Transmitters for Automatic Control of the Horizontal Distribution of the Charge

deposits in the protective tubes which compress the casing of the thermocouples, thus deforming them and damaging the insulation of the thermoelectrodes. Tests were carried out to eliminate these drawbacks by arranging a large number of thermocouples (6,8,12 and more) in the vault of the blast furnace above the armor plates. By analyzing the factors influencing the operation of thermocouples placed above the charge level, it was found that the operation of the revolving distributor greatly affects the change of readings of the conditions on the furnace periphery only if the materials fed into the furnace are distributed evenly. However, the diagrams representing the readings of these thermocouples are not suitable to locate gaps in the charge. In order to facilitate the location of gaps, the thermocouples arranged according to the new system are connected into batteries; moreover, a change-over switch was included in the system. The gap in the charge can very easily be located on the periphery of the furnace by one of the two positions of this change-over switch, in which the electromotive force of the thermocouples connected in the battery is zero. This new arrangement of the thermocouples greatly improves the sensitivity, accuracy and reliability of the control system of the revolving distributor. Card 2/3

S/133/60/000/011/003/023  
A054/A029

Rational Arrangement of Transmitters for Automatic Control of the Horizontal  
Distribution of the Charge

butor. There are 8 figures and 4 Soviet references.

ASSOCIATION: Ural'skiy polytekhnicheskiy institut (Ural Polytechnical  
Institute) and NMTK

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Card 3/3

GREKOV, P.N.; GRUZINOV, V.K.; KORNEV, V.K.

Methods of testing the gas-dynamic properties of charge materials.  
Izv. vys. ucheb. zav.; Chern. met. no. 1:41-45 '61.  
(MIRA 14:2)

1. Ural'skiy politekhnicheskiy institut.  
(Blast furnaces--Equipment and supplies)  
(Gas flow)

GREKOV, V.

Heater for a drum dryer. Masl.-zhir.prom. 20 no.1:27-28 '55.  
(MLRA 8:3)

1. Labinskiy maslozavod.  
(Drying apparatus) (Furnaces)

OZHGA, S.; KOSYAKOV, K., prof.; GREKOV, V.

Exciting and useful. Sov.foto 22 no.11:46 N '62. (MIRA 16:1)  
(Nature photography)

GREKOV, V., General-mayor

Make fuller use of the force of socialist competition. Voen.vost.  
39 no.5:3/-40 Ky '60. (MLA 14:2)  
(Russia--Army) (Socialist competition)

GREKOV, V., general-leutenant

Fully supply soldiers with authorized allowances. Komm. Vooruzh.  
Sil 4 no.12:42-44 Je '64. (MIRA 17:9)

1. Nachal'nik politicheskogo upravleniya Belorusskogo voyennogo  
okruga.



GREKOV, Vasilii Ivanovich, SMIRNOV, S.M., doktor tekhn.nauk, retsenzent  
GUREVICH, S.L., inzh., retsenzent; PLEMYANNIKOV, M.N., red.

[Automation of production processes in light industry  
enterprises] Avtomatizatsiia tekhnologicheskikh pro-  
tseessov na predpriatiiakh legkoi promyshlennosti. Mo-  
skva, Legkaia industriia, 1965. 322 p. (MIRA 18:10)

GREKOV, V.I.

The first published accounts on the First Kamchatka Expedition,  
1725-1730. Izv. AN SSSR, Ser. geog. no. 6:108-112 N-D '56.  
(MLRA 10:1)

1. Institut geografii Akademii nauk SSSR.  
(Kamchatka--Discoveries and exploration)

GREKOV, V.I.

AUTHOR: Grekov, V.I.

10-58-2-12/30

TITLE: New Data on the Geographical Distribution of the Extinct Sea Cow (*Hydrodamalis Stelleri*) (Novyye izvestiya o geograficheskom rasprostraneniі vymerzhey morskoy korovy - *Hydrodamalis Stelleri* )

PERIODICAL: Izvestiya Akademii nauk SSSR - Seriya geograficheskaya, 1958, Nr 2, pp 95-100 (USSR)

ABSTRACT: The author gives a detailed description of the research work carried out in the 18th and 19th century on the distribution of the sea cow. He lists Soviet and foreign scientists and their works on this subject and points to their contradicting views. A final solution to this problem has not yet been found. There is 1 chart and 27 references, 13 of which are Soviet, 10 German, 3 French and 1 American.

ASSOCIATION: Institut geografii AN SSSR (Institute of Geography of the AS USSR)

1. Mammals--Research and Development

Card 1/1

10-58-3-13/29

AUTHORS: Grekov, V.I., Lebedev, D.M., Ye.R. Lopatina, Fradkin, N.G.

TITLE: Memorable Dates From the History of Geographical Science  
(Pamyatnyye daty iz istorii geograficheskoy nauki)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geograficheskaya, 1958,  
Nr. 3, pp 84-87 (USSR)

ABSTRACT: With this article the periodical starts to publish biographic-  
al sketches of outstanding Soviet and foreign geographers.

AVAILABLE: Library of Congress

Card 1/1      1. Biographies - Geographers      2. Periodicals - USSR

SOV-10-58-4-13/28  
AUTHORS: Grekov, V.I., Kamanin, L.G., Lebedeva, D.M., Lopatina, Ye.R.,  
Fradkin, N.G.

TITLE: Landmarks in the History of Geographical Science  
(ranyatnyye daty iz istorii geograficheskoy nauki)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geograficheskaya,  
1958, Nr 4, pp 87-90 (USSR)

ABSTRACT: This article contains a list of memorable events in the  
field of geography from 1508 to 1933.

1. Geography--USSR

Card 1/1

SOV/10-59-1-15/32

AUTHORS: Grekov, V.I., Kamanin, L.G., Lebedev, D.M., Fradkin, N.G.

TITLE: Memorable Dates From the History of Geographical Science, Third Review (Pamyatnyye daty iz istorii geograficheskoy nauki - Obzor tretiy)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya geograficheskaya, 1959, Nr 1, pp 106-108 (USSR)

ABSTRACT: This survey covers 10 memorable dates from the 18th and early 19th centuries.

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3(5)

SSV/10-59-2-10/20

AUTHOR: Grekov V.I.

TITLE: On the "Map of All Siberia, Down to the Chinese and Nika[n]skoye Empires"

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geograficheskaya, 1959, Nr 2, pp 30-32 (USSR)

ABSTRACT: This is an analysis of the problems connected with the character and origin of one of the oldest Russian maps of Siberia, the "Kortesh vsey Sibiri do Kitayskogo Tsarstva i do Nikaskogo" ("Plan of All Siberia, Down to the Chinese and Nika[n]skoye Empires" commonly attributed to the year 1672, though there is no certainty about the year of its publication. The author brings it in line with two Swedish maps of Siberia, compiled at about the same time, considering all three maps as copies from a lost Russian original from the beginning of the 17th cen-

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307/10-59-2-10/29

On the "Map of All Siberia, Down to the Chinese and  
Nika[n]skoye Empires"

ture. There are 4 maps and 24 references, 20 of  
which are Soviet, 3 English and 1 Swedish.

ASSOCIATION: Institut Geografii AN SSSR (Institute of Geography  
of the AS USSR)

Card 2/2



GREKOV, Vadim Ivanovich; PATULOV, A.A., kartograf; GRIGOR'YEV, A.A.,  
akademik, otv.red.; LEBEDEV, D.M., doktor geograf.nauk, otv.red.;  
SELYAVINA, T.D., red.izd-va; POLYAKOVA, T.V., tekhn.red.

[Outline history of Russian geographical explorations from 1725  
to 1765] Ocherki iz istorii russkikh geograficheskikh issledo-  
vanii v 1725-1765 gg. Moskva, Izd-vo Akad.nauk SSSR, 1960.  
425 p. (MIRA 13:7)

1. Institut geografii AN SSSR (for Potulov).  
(Russia--Discovery and exploration)

GREKOV, V.I.; FRADKIN, N.G.

Session of a joint meeting of the Departments of Geology,  
Geography, and Chemistry of the Academy of Sciences of the  
U.S.S.R. dedicated to the 250th anniversary of M.V.Lomonosov's  
birth. Izv. AN SSSR. Ser. geog no.1:160-161 Ja-F '62.

(MIRA 15:2)

(Lomonosov, Mikhail Vasil'evich, 1711 - 1765)

GREKOV, V.I.

M.V.Lomonosov's works in the field of geography. Vop.ist.est.1  
tekh. no.12:119-128 '62. (MIRA 15:4)  
(Lomonosov, Mikhail Vasil'evich, 1711-1765) (Geography)

AYZENBERG, B.L.; BOLOTOV, V.V.; BRIL', R.Ya.; GERASIMOV, V.N.; GREKOV, V.I.;  
DOVETOV, M.Sh.; KAMENSKIY, M.D.; KLEBANOV, L.D.; KONSTANTINOV, B.A.;  
KUZ'MIN, V.G.; LYUBAVSKIY, V.I.; MELENT'YEV, L.A.; MIKHALEV, N.N.;  
POLYANSKIY, V.A.; RAZDROGINA, L.A.; SIVAKOV, Ye.R.; STARIKOV, V.G.;  
SAVASHINSKAYA, V.I.; SHAYOVICH, L.L.

Igor' Valentinovich Gofman, 1903-1963; obituary. Trudy LIEI  
no.51:3-4 '64. (MIRA 18:11)

MELEKHIN, V.T., inzh.; GREKOV, V.I., inzh.

Problem of the standardization of power rates in enterprises  
manufacturing a wide range of products. Prom. energ. 19 no.12:  
2-3 D '64. (MIRA 18:3)

BORZOV, K.V., otv.red.; GREGOROV, V.K., otv.red.; MIKHALENKOV, S.P., otv.  
red.; ONISHCHUK, K.N., otv.red.; STEPANOV, A.A., otv.red.;  
RATNIKOVA, A.P., red.izd-va; ALADOVA, Ye.I., tekhn.red.

[Safety rules in coal and shale mines; applicable to mines in  
operation, under construction, and reorganization] Pravila bez-  
opasnosti v ugol'nykh i slantsevykh shakhtakh; nastoiashchie  
pravila rasprostraniatsia na shakhty, nakhodiashchiesia v  
ekspluatatsii, stroitel'stve i rekonstruktsii. Izd.3. Moskva.  
Ugletekhizdat, 1959. 594 p. (MIRA 12:12)

1. Russia (1923- U.S.S.R.) Komitet po nadzoru za bezopasnym vedeniyem  
rabot v promyshlennosti i gornomu nadzoru.  
(Mining engineering--Safety measures)

GREKOV, V.K., inzh.; MANEVICH, V.F.

Prevent longwall filling in coal mines. Bezop.truda v prom. 5  
no.3:9-11 Mr '61. (MIRA 14:3)  
(Coal mines and mining--Safety measures)

GREKOV, V.K., inzh.; CHERMASHENTSEV, Ya.N. inzh.

Causes of roof stoping in the No.6 mine. Bezop.truda v prom.  
6 no.2:9-10 F '62. (MIRA 15:2)

1. Gosgortekhnadzor RSFSR.  
(Cherepet'—Coal mines and mining—Accidents)



GREKOV, V.K., inzh.; BREGADZE, T.V., inzh.

Accident at Mine No.26. Bezop.truda v prom. 9 no.4:10-12 Ap '65.  
(MIRA 18:5)

1. Gosudarstvennyy komitet pri Sovete Ministrov RSFSR po nadzoru za  
bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzoru.

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S/055/59/000/06/15/027  
B006/B005

24.2200

AUTHORS:

Smol'kov, N. A., Grekov, V. M.

TITLE:

Some Properties of the  $\text{Li}_{2.0}^{\text{v7}}\text{O}^{\text{v7}}\text{xFe}_{2.0}^{\text{v7}}\text{O}_3$  System

PERIODICAL:

Vestnik Moskovskogo universiteta. Seriya matematiki, mekhaniki, astronomii, fiziki, khimii, 1959, No. 6, pp. 137 - 141

TEXT: Lithium ferrites of this type are very important in technology since their solid solutions with other ferrites form magnetic materials having a small tangens of the loss angle within a range of some tens of Mc/sec, and good time- and impulse characteristics. The crystal structure of these ferrites has been insufficiently investigated. A cubic lattice of the rock-salt type was found as well as a tetragonal modification - the transition point was found to be at  $660^{\circ}$ . The modification  $\text{Li}_{2.0}\text{Fe}_{2.0}\text{O}_3$  has its transition point far below  $660^{\circ}$ . A phase with spinel structure was also found for ferrites with  $x = 2, 3, 4$ .  $\text{Li}_{2.0}\text{Fe}_{2.0}\text{O}_3$  has a spinel structure with  $a = 8.309$  or  $8.37$  Å. A number of further details taken from publications are mentioned. Subsequently, the authors present experimental results concerning the determination of the Curie point, and the static magnetic

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Some Properties of the  $\text{Li}_{2.0-x}\text{Fe}_2\text{O}_3$  System

S/055/59/000/06/15/027  
B006/B005

characteristics of ferrites ( $x = 1, 2, \dots, 6$ ).  $\theta_K$  was determined from the change in inductance of a ferrite-core coil on heating from  $-196$  to  $+700^\circ$ . Fig. 1 shows the dependence of the magnetic permeability  $\mu$  on  $H$  for all  $x$ -values, Fig. 2 the dependence of the primary and maximum permeability  $\mu_0$  and  $\mu_{\max}$ , and the coercive force  $H_c$  of ferrites, on their composition, Fig. 3 the dependence of the magnetic residual and maximum induction  $B_r$  and  $B_m$  of ferrites on their composition, and Fig. 4 the dependence of the angle of rotation  $\varphi$  of the polarization plane on  $H$ . Further, the authors investigated the high-frequency properties of ferrites. The Faraday effect was investigated at  $9370$  Mc/sec by the method published in Ref. 9. Fig. 5 shows the dependence of the angle of rotation of the polarization plane on the composition at  $H = \text{const}$  for three different temperatures. It is shown that the compound  $\text{Li}_{2.0.5}\text{Fe}_2\text{O}_3$  is the most magnetoactive one in the range of superhigh frequencies. This compound also shows the smallest coercive force, and maximum values of  $\mu_0$  and  $\mu_{\max}$ ,  $B_r$  and  $B_m$ , and  $\varphi$ . A device for measuring the phase shift  $\Delta\varphi$  and the damping  $\delta$  of electromagnetic waves passing through a ferrite plate is described (Fig. 6). If  $Q = \Delta\varphi/\delta$  is defined as the quality factor of ferrite, the compound with  $x = 5$  also has the maximum

Card 2/3

69788

Some Properties of the  $\text{Li}_{20}\cdot\text{xFe}_{203}$  System

S/055/59/000/06/15/027  
B006/B005

Q-value as is shown by Fig. 7. There are 7 figures, 1 table, and 20 references, 4 of which are Soviet.

ASSOCIATION: Kafedra magnetizma (Chair of Magnetism)

SUBMITTED: January 22, 1959

Card 3/3

GREKOV, V.S.

Finds of some birds on the southwestern coast of the Caspian Sea.  
Ornitologia no.3:441-443 '60. (MIRA 14:6)  
(Caspian Sea region--Birds)

GREKOV, V.S.

Barbary dove in Odessa. Ornitologia no.4:328-332 '62. (MIRA 16:4)  
(Odessa—Pigeons)

GREKOV, V.S.

Wintering of flamingo in the Kyzyl-Agach Preserve. Ornitologia  
no.5:356-361 '62. (MIRA 16:2)

(Kyzyl-Agach Preserve--Flamingos)  
(Kyzyl-Agach Preserve--Birds in Winter)

GREKOV, V.S.

Automatic line for machining and assembling wheel-cylinder pistons.  
Avt. prom. 31 no.1:40 Ja '64. (MIRA 18:3)

1. Ural'skiy avtozavod.



GREKOV, V.S.

Colonies of gressorial and steganopodous birds in the Kyzyl-Igach  
Preserve. Ornitologiya no.7:258-265 '65.

(MIRA 18:10)

5(2)

SOV/67-58-6-2/22

AUTHORS: Sel'kin, G. S., Engineer, Trubetskov, K. M., Candidate of Technical Sciences, Grekov, Ye. A., Engineer, Zadalya, N. P., Engineer, Voytov, A. O., Engineer, Mitrofanov, A. A., Candidate of Technical Sciences

TITLE: Direct Oxidation of the Martin Tank by an Oxygen-Water Mixture (Pryamoye okisleniye martenovskoy vannы kislороdo-vodyanoy smes'yu)

PERIODICAL: Kislород, 1958, Nr 6, pp 3 - 7 (USSR)

ABSTRACT: In the production of steel from cast iron, the latter was submitted to oxygen blowing in the melting tank, for the purpose of carbon burning. This process was accompanied by very high temperatures. Iron evaporated and formed a large amount of melt dust, which impair the refractory furnace lining and caused its premature destruction. By blowing with an oxygen-water mixture it was intended to reduce dust formation (30-35 m<sup>3</sup> oxygen, 40 l water; later on during the course of process, 30 l water). The investigations were carried out with two Martin furnaces of the "Zaporozhstal'" factory. Academician I. P. Bardin supervised the work. The

Card 1/2

Direct Oxidation of the Martin Tank by an Oxygen-Water  
Mixture

SOV/67-58-6-2/22

use of oxygen-water blast in the melting and tapping of low-carbon-content steel processing increased the furnace efficiency by 7-7.5%. The fuel consumption decreased by 7%, as compared to melting with oxygen blast. The quantity of liquid steel is somewhat less than that obtained by pure oxygen blast which is due to the ore consumption for the melt being a little lower. The best moment to begin blowing is about 80 minutes after the cast iron has begun flowing in, and the process is ended when the carbon content is higher by 0.02% than before deoxidation. In the melting of steels with a medium carbon content, the furnace efficiency was increased by 5-6%, whereas fuel consumption was lower by 2-3%. The hydrogen content in the boiling metal does not exceed the admissible quantity. The use of an oxygen-water mixture for blast has proved an efficient means for diminishing melt dust. Moreover, all impurities are thus separated. There are 3 figures, 2 tables, and 6 references, 4 of which are Soviet.

Card 2/2

SEL'KIN, G.S., inzh.; TRUBETSKOV, K.M., kand.tekhn.nauk; GRMKOV, Ye.A.,  
inzh.; ZADALYA, N.P., inzh.; VOYTOV, A.O., inzh.; MITROPANOV, A.A.,  
kand.tekhn.nauk

Direct oxidation of the open-hearth bath with an oxygen-water mixture.  
Kislород 11 no.6:3-7 F '59. (MIRA 12:3)  
(Open-hearth process) (Oxygen--Industrial applications)

USE OF COMPRESSED AIR, S.S., kand. tekhn. nauk; CHIRIKOV, Ye.A., inzh.; LOUTCHENKO, S.S.,  
inzh.

Use of compressed air for blowing open-hearth furnace baths.  
Bukl. TSINGIEM no. 5:6-12 '61. (MIRA 14:10)  
(Open-hearth furnaces)  
(Compressed air)

TRUBETSKOV, K.M., kand.tekhn.nauk; KORNFEL'D, V.N., kand.tekhn.nauk  
GREKOV, Ye.A., inzh.; VCYTOV, A.O., inzh.; SHTEYNBERG, L.S., inzh.;  
TOMTATIDZE, G.A., inzh.

Investigating the melting of the open-hearth furnace charge with  
various methods of using oxygen [with summary in English]. Stal'  
21 no.3:214-222 Mr '61. (MIRA 14:6)  
(Open-hearth furnaces) (Oxygen--Industrial applications)

KORNFEL'D, V.N., kand.tekhn.nauk; VOYTOV, A.O., inzh.; SHTEYNBERG, L.S.,  
inzh.; GREKOV, Ye.A., inzh.

Control of open-hearth furnace smelting by the composition and  
temperature of combustion products. Stal' 21 no.10:950-958 0  
'61. (MIRA 14:10)

1. TSentroenergochermet i Tsentral'nyy nauchno-issledovatel'skiy  
institut chernoy metallurgii.  
(Open-hearth furnaces--Combustion)

GREKOV, Ye.A.

Use of oxygen in the open-hearth process abroad. Biul. tekhn.-eksp.  
inform. no.1:85-87 '62. (NIRA 15:2)

(Open hearth process)  
(Oxygen)



ACC NR: AP5026817

SOURCE CODE: UR/0286/65/000/017/0095/0095

AUTHOR: Mityashin, I. P.; Dobrolyubov, S. A.; Grekov, Ye. A.

ORG: none

TITLE: A direct-action pressure regulator. Class 42, No. 174450 [announced by Smolensk Branch of the Scientific Research Institute of Heat and Power Engineering Equipment (Smolenskiy filial Nauchno-issledovatel'skogo instituta teploenergeticheskogo priborostroyeniya)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 17, 1965, 95

TOPIC TAGS: pressure regulator, pressure measuring instrument

ABSTRACT: This Author's Certificate introduces a direct-action pressure regulator which contains a diaphragm-type actuating mechanism with control valve, and also incorporates a measurement diaphragm, spring, and screw for adjustment of the spring tension. The quality of control is improved by using a proportional-plus-integral device which contains a baffle with a groove. This baffle is mounted on the lower side of the measurement diaphragm, and supply and receiving nozzles are located opposite the groove. The supply nozzle is connected with tubing to a high pressure line, and the receiving nozzle is connected to a tank above the diaphragm of the actuating mechanism through a tube containing the control valve for the isodrome.

UDC: 621.646.4

SUB CODE: IE/

SUBM DATE: 15Apr64/

ORIG REF: 000/

OTH REF: 000

Card 1/1

YEFIMOV, L.M.; BEYTEL'MAN, L.S.; GREKOV, Ye.A.

Characteristics of the charging and preheating periods with the  
intensive oxygen blowing of the bath. Izv. vys. ucheb. zav.; chern.  
met. 8 no.7;28-31 '65. (MIRA 18:7)

1. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metal-  
lurgii imeni I.P.Bardina.

GREKOV, Ye.A., inzh.

Effect of the intensity of the oxygen feed to an open-hearth  
furnace bath on the technological indices of the process.

Stal' 24 no.12:1083-1087 D '64. (MIRA 18:2)

1. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy  
metallurgii imeni I.P. Bardina.

YEFIMOV, L.M.; BEYTEL'MAN, L.S.; GREKOV, Ye.A.

Open-hearth furnace smelting with an intensive blowing of  
the bath by oxygen. Izv. vys. ucheb. zav.; chern. met. 8  
no.9:45-49 '65. (MIRA 18\*9)

1. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy  
metallurgii im. Bardina.

GARCHENKO, " T.; BALAKIN, F.N.; YEFIMOV, L.M.; POGORELYY, V.P.; GREKOV,  
Ye.A.; KORKOSHIKO, N.M.; VORONOV, Yu.F.; POLTAVETS, Ye.I.; VOYTOV,  
A.O.; SHTEYNBERG, L.S.

Production of steel in large-capacity open-hearth furnaces with  
blowing of oxygen through the bath. Stal' 25 no.2:116-121 F '65.  
(MIRA 18.3)

22800, 10.40, BUTYLAMINE, 5.0%

Heating and demethanizing or openhearth furnace both  
driving the blowing with oxygen. Twp. v. 2, sheet. 200; Chem.  
not. 8 no. 1119-62 '65. (MURR 18/11)

1. Tsel'mennyy mashinostroyeniynyy inst'tut Chernyy  
metallurgiyi imeni I.P. Bardina.

LAPTEV, I.D.; TERYAYEVA, A.P.; SAPIL'NIKOV, N.G.; CHENTSOV, R.Ye.  
[deceased]; SEPP, Ya.P.; SUVOROVA, L.I.; ZASLAVSKAYA, T.I.;  
GREKOVA, A.I.; TONKOVICH, V.S.; IBRAGIMOV, A.I.; KOTSYUBA,  
T.Ya.; KURYLEV, V.M.; KOVALEVSKIY, G.T.; KALNINS, A.A.  
[Kalnins, A.]; SIDOROVA, M.I.; MALISHAUSKAS, V.I.  
[Malisauskas, V.]; PASECHNIK, P.P.; BUGAREVICH, V.S.;  
KARNAUKHOVA, Ye.I.; AREF'YEV, T.I.; KAZAKOV, I.G.;  
GUMOVSKIY, I.A.; SEMIN, S.I., red.; LINKUNA, N.I., red.;  
TSITKO, I.A., red.; VOLKOVA, V.V., tekhn. red.

[Material incentives for developing the collective farm produc-  
tion] Material'noe stimulirovanie razvitiia kolkhoznogo pro-  
izvodstva. Moskva, Izd-vo AN SSSR, 1963. 326 p.

(MIRA 16:12)

1. Akademiya nauk SSSR. Institut ekonomiki.
2. Institut eko-  
nomiki AN SSSR (for Laptev, Teryayeva, Suvorova, Zaslavskaya,  
Sidorova, Karnaukhova).
3. Sredneaziatskiy gosudarstvennyy uni-  
versitet (for Sapil'nikov).
4. Komi filial AN SSSR (for Chentsov).
5. Institut ekonomiki AN Estonskoy SSR (for Sepp).
6. Bashkirskiy  
filial AN SSSR (for Grekova).
7. Institut ekonomiki AN Belo-  
russkoy SSR (for Tonkovich, Kovalevskiy).
8. Institut ekonomiki  
AN Uzbekskoy SSR (for Ibragimov).

(Continued on next card)

LAPTEV, I.D.--- (continued). Card 2.

9. Institut ekonomiki AN Ukr.SSR (for Kotsyuba, Pasechnik).
  10. Belorusskiy institut ekonomiki i organizatsii sel'sko-khozyaystvennogo proizvodstva (for Bugarevich).
  11. Vsesoyuznyy institut sakharnoy svekly (for Aref'yev).
  12. Institut ekonomiki AN Kirgizskoy SSR (for Kazakov).
  13. Rabotnik Tsentral'nogo Komiteta Kommunisticheskoy partii Moldavskoy SSR (for Gurovskiy).
  14. Kuybyshevskiy planovyy institut (for Kurylev).
- (Collective farms--Income distribution)



GREKOVA, A.I.; ARAMOVA, A.G.

New method of restoring the agglutination ability of nonagglutinating dysentery cultures. Zhur. mikrobiol., epid. i immun. 41 no.11:147-148 '65. (MIRA 18:5)

1. Frunzenskaya gorodskaya sanitarno-epidemiologicheskaya stantsiya.

GREKOVA, A. M.

"Investigation of Hydraulic Conditions in  
the Intertubular Space of Cluster Heat  
Exchangers."

Thesis for degree of Cand. Technical Sci.  
Sub 27 Oct 50, Central Sci., Res. Inst. of  
Aviation Fuels and Oils.

Summary 71, 4 Sep. 52, Dissertations Presented  
for Degrees in Science and Engineering in Moscow  
in 1950. From Vechernyaya Moskva. Jan-Dec 1950.

GREKOVA, A.M.; NEMETS, L.L.; MANSILIN, V.V.; MANAKOV, N. Kh.

Using a hydrocyclon as a thickener for suspensions of very  
low concentrations. Khim i tekhn. topl. i masel 7 no.10:46-51  
0'62 (MIRA 1787)

GREKOVA, A.M.; MANAKOV, N.Kh.; MANSHILIN, V.V.

Some hydrodynamic properties of a fluidized bed of powdered catalysts. Khim.i tekhn. topl.i masel 8 no.1:4-10 Ja '63.  
(MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke  
nefti i gazov i polucheniyu iskusstvennogo zhidkogo topliva.  
(Fluidization) (Catalysts)

GREKOVA, B.

Editorial office on chemistry in the state Publishing House  
"Narodna prosveta," an effective help to teachers. Biol i  
khim 4 no.4:61-63 '62.

1. Zav. redaktsiata po khimiia pri Izdatelstvo "Narodna  
prosveta".

GREKOVA, B.

Popular science literature on chemistry for the smallest readers.  
Biol i khim 6 no.5:54-55 '63.

1. Zav. redaktsiia po khimii pri DI "Narodna Prosveta".

GREKOVA, E.P.

Use of hydrazine and its derivatives for analyzing inorganic  
compounds. Prom.khim.reak. i osobo chist.veshch. no.3:49-53  
'63. (MIRA 17:4)

GREKOVA, E.B.; GREKOV, A.P.

Methods for the analysis of hydrazine and its derivatives.

Prom.kh.m.reak. i osobo chist.veshch. no.3:54-61 '63.

(MIRA 17:4)



GREKOVA, E.B.

p-Methylstyrene. Metod.poluch.khim.reak. i prepar. no.7:88-90  
'63.

2-Iodofluorene. Ibid.:90-91

(MIRA 17:4)

1. Institut khimii polimerov i monomerov AN UkrSSR.

GRINCH, G.M.

GRINCH, G.M.

Effect of penicillin therapy on some immunobiological factors in  
scarlet fever. Vop. okh. nat. i det. 2 no. 4:85 J1-Ag '57. (MIRA 10:9)

1. Iz Stanislavskogo gosudarstvennogo meditsinskogo instituta  
(PENICILLIN) (SCARLET FEVER)

GREKOVA, G.N.

Immunochemotherapy of scarlet fever. Vop.okh.mat.i det. 5:70-71  
Jl-Ag '60. (MIRA 13:7)

1. Iz kafedry infektsionnykh bolezney (zav. - dotsent V.A.  
Matsiyevskiy) Stanislavskogo meditsinskogo instituta (dir. -  
dotsent G.A. Babenko).  
(SCARLET FEVER)

*(LRE 1000, 1000)*  
BOLDYREV, A.K., [deceased]; GREKOVA, M.K.; KUZ'MINA, L.B.; ALYAVDIN, V.F.

Crystallographic tables for finding the ratio of two whole  
numbers in decimals. Kristallografiia no.4:196-229 '55.  
(MLRA 1085)

(Crystallography)

GREKOVA, N. A.

"Cytology and Cytophysiology of the Smooth Musculature of Invertebrates." Sub 4 May 51, Moscow Order of Lenin State University M. V. Lomonosov.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

VERSHILOVA, P.A.; GREKOVA, N.A.

Experience with intranasal immunization of guinea pigs with live  
brucellosis vaccine. Zhur. mikrobiol. epid. i immun. 29 no.11:16-20  
N '58. (MIRA 12:1)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.  
(BRUCELLIOSIS, immunol.  
vacc., intranasal with living bacilli in guinea pigs (Rus))

VERSHILOVA, P.A.; GREKOVA, N.A.

Reaction of the guinea pig organism infected with Brucella to the  
administration of brucellosis vaccine. Zhur.mikrobiol.epid.i immun.  
30 no.10:37-43 0 '59. (MIRA 13:2)

1. Iz Instituta epidemiologii i mikrobiologii imeni G<sub>a</sub>malei AMN SSSR.  
(BRUCELOSIS immunol.)  
(VACCINATION)

VERSHILOVA, P.A.; GREKOVA, N.A.

Histochemical characteristics of macrophages in brucellar vaccination and infection. Zhur. mikrobiol. epid. i immun. 31 no.7:118-123  
Jl '60. (MIRA 13:9)

1. Iz Instituta epidemiologii i mikrobiologii im. Gamalei AMN SSSR.  
(MACROPHAGES) (BRUCELLOSIS)



VERSHILOVA, P.A.; GREKOVA, N.A.

Influence of cortisone administered in doses depressing the reticuloendothelial system on the courses of vaccinal process and intensity of immunity in brucellosis. Zhur. mikrobiol., epid. i immun. 32 no.9:87-92 S '61. (MIRA 15:2)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.  
(BRUCELLOSIS) (CORTISONE)  
(RETICULO-ENDOTHELIAL SYSTEM)

OSTROVSKAYA, N.N., DUBROVSKAYA, I.I., GREKOVA, N.A.

"Biological and chemical peculiarities of brucella melitensis dissociated cultures."

Report submitted to the Intl. Congress for Microbiology  
Montreal, Canada 19-25 Aug 1962

VERSHILOVA, P. A.; OSTROVSKAYA, N. N.; GREKOVA, M. A.

"Selection of Brucella Variants for Possible Use as Vaccines."

Report presented at the meeting of the World Health Organization,  
Geneva, 3-9 Dec 63.

Gamaleya Institute of Epidemiology and Microbiology, AMS USSR.

GREKOVA, N.A.; OSTROVSKAYA, N.N.

Pathomorphological characteristics of the organs of guinea pigs infected with agglutinable and inagglutinable *Brucella melitensis* cultures. Zhur. mikrobiol.; epid. i imman. 41 no.6:111-115 Je '64.  
(MIRA 18:1)

1. Institut epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

SHEVTSOVA, Z.V.; GREKOVA, N.A.

Morphological characteristics of brucellosis vaccination process  
under the effect of radiation. Zhur.mikrobiol., epid. i immun.  
42 no.10:61-65 0 '65. (MIRA 18:11)

1. Institut epidemiologii i mikrobiologii imeni Gamalei AMN  
SSSR. Submitted June 26, 1964.

L 62622-65 EWT(1)/EWA(j)/T/EWA(b)-2 JK  
ACCESSION NR: AP5011282

UR/0016/65/000/004/0092/0096

AUTHOR: Grekova, N. A.; Gubina, Ye. A.

TITLE: The course of brucellosis in guinea pigs infected with brucella  
isolated from reindeer

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii,  
no. 4, 1965, 92-96

TOPIC TAGS: guinea pig, brucella, brucellosis, virulence,  
epidemiology

ABSTRACT: The virulence and pathogenicity of 3 brucella strains (3,03,001) isolated from reindeer were compared with those of virulent Br. melitensis No. 565 strain, Br. suis No. 1330 strain, and Br. abortus 19-RA strain in experiments on guinea pigs. Experimental animals were infected subcutaneously with 2 day old cultures of brucella isolated from reindeer in doses of 10 to 1 billion of Br. melitensis, Br. suis and Br. abortus. Animals were killed 30 days later for bacteriological and histological investigations of the lymph nodes, lungs, spleen, and bone marrow. Findings show that the 011 strain is the least virulent and least pathogenic of the 3 brucella cultures isolated from reindeer. Brucella strains

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L 62622-65

ACCESSION NR: AP5011282

3 and 03 proved to be more virulent, producing pathohistological changes in the lymph nodes and organs of the same severity as corresponding doses of Br. melitensis No. 565 strain. The use of small doses of infectious bacteria in addition to large doses is strongly recommended in studying the virulence and pathogenicity of closely related brucella cultures. Small doses of a given strain generally produce different types of reactions, whereas large doses often produce a single type of reaction which may be misleading. Orig. art. has: 2 tables and 3 figures.

ASSOCIATION: Institut epidemiologii i mikrobiologii im. Gamalei AMN SSSR  
(Institute of Epidemiology and Microbiology AMN SSSR)

SUBMITTED: 02Jan64

ENCL: 00

SUB CODE: LS

NR REF SOV: 009

OTHER: 000

Cord. 2/2

L 58309-65 EWT(1)/EWA(j)/EWA(b)-2 JK

ACCESSION NR: AP5013798

UR/0016/65/C00/005/0122/0125

616.981.42-085.371-06 :

616-056.3-008.9-092.18-07

AUTHOR: Greko, N. A.

TITLE: Histochemical characteristics of the allergic vaccinal pathology caused by live brucellosis vaccines

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 5, 1965, 122-125

TOPIC TAGS: brucella, vaccine, live vaccine, histochemistry, histidine, muscle, allergy, amino acid, immunity

ABSTRACT: Development of the vaccinal process in guinea pigs immunized with live brucellosis vaccine sensitizes the organism and increases the amount of histidine in smooth muscle cells of the uterine wall, blood vessels, and intestine. The effect is most pronounced in the muscle cells of the uterus and blood vessels. Vaccinal strains of *Br. abortus* 19-Ba and *Br. abortus* 104-M, which differ from each other in residual virulence, pathogenicity, and sensitizing capacity, produce biochemical changes of varying degree in smooth muscle contractility. An increase in

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L 58309-65

ACCESSION NR: AP5013798

histidine content of the cells generally reflects marked sensitization of the body, as revealed by the Burnet skin reaction. The author concludes from his findings and the observations of other investigators that allergization of the organism and concomitant biochemical and functional reorganization of cells and tissue following immunization with live vaccines requires the use only of vaccines with immunogenic properties and very low sensitizing capacity. Orig. art. has: 3 figures.

ASSOCIATION: Institut epidemiologii i mikrobiologii im. N. F. Gamaley AMN SSSR  
(Institute of Epidemiology and Microbiology, AMN SSSR)

SUBMITTED: 14Apr64

ENCL: 00

SUB CODE: LS

NO REF SOV: 002

OTHER: 001

Card 2/2

L 21950-66 EWT(1)/EWT(m)/T JK

ACC NR: AP601448

SOURCE CODE: UR/0016/65/000/010/0061/0065

AUTHOR: Shevtsova, Z. V.; Grekova, N. A.

ORG: Institute of Epidemiology and Microbiology im. Galamova, AMN SSSR (Institut epidemiologii i mikrobiologii AMN SSSR) 31

TITLE: Morphological characteristics of the brucella vaccine process in irradiated guinea pigs 79

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 10, 1965, 61-65

TOPIC TAGS: immunization, bacteria, bacteriology, radiation biologic effect, experiment animal, hematopoiesis

ABSTRACT: Experiments were performed on guinea pigs irradiated with 150 r at various times before and after immunization with live brucella vaccine (Br. abortus 19-BA). The lymph nodes within 5 days of immunization were marked by hyperplasia of the reticular elements. Groups of light reticular cells and occasional symplasts appeared between the 15th and 30th days. The morphological picture in the lymph nodes tended to return to normal after 3 months. Hyperplasia of the reticular cells and pulp was noted in the spleen along with intensified lymphopoiesis. During the first month after vaccination the liver was also characterized by hyperplasia and swelling of Kupffer's cells.

In irradiated but not immunized animals, during the first 15 days after irradiation the lymph nodes lost many of their follicles. The blood vessels

Card 1/2

UDC: 616.98.1.42-097-092.9-06:617-001.281-091

L 21950-66

ACC NR: AP6014448

were dilated and hyperemic. Signs of restoration of lymphopoiesis appeared between the 10th and 15th days and continued until the 50th day after irradiation.

The morphological changes in the lymph nodes and various organs were the same regardless of the sequence of irradiation and vaccination or the duration of the interval between them. No necrotic changes or liver cirrhosis were observed in the controls (immunization without irradiation and irradiation with immunization). Orig. art. has: 2 figures. [JPRS]

SUB CODE: 06 / SUBM DATE: 26Jun64 / ORIG REF: 008

Card 2/2 *VR*

GREKOVA, N.O.

Nonlinear formulation of the Cauchy -- Poisson problem. Vest. Mosk.  
un. Ser.1: Mat., mekh. 18 no.5:68-80 S-O '63. (MIRA 16:10)

1. Moskovskiy gosudarstvennyy universitet, kafedra gidromekhaniki.